## ISSUE SLIP STAPLE AREA (for additional cross references)

| POSITION                  | INITIALS | ID NO. | DATE |
|---------------------------|----------|--------|------|
|                           |          |        |      |
| FEE DETERMINATION         |          |        |      |
| O.I.P.E. CLASSIFIER       |          |        | 1    |
| FORMALITY REVIEW          |          |        |      |
| RESPONSE FORMALITY REVIEW |          |        |      |
|                           |          |        |      |

## INDEX OF CLAIMS

| J        | Rejected                   |   | N. | Non-electe   | d  |
|----------|----------------------------|---|----|--------------|----|
| _        | Allowed                    |   | Ι, | tnterference |    |
|          | (Through numeral) Canceled |   |    | Appeal       |    |
| <u>-</u> | Restricted                 | • |    | A11          | ٠. |

| _   |          | _        |          |     | <u>.                                    </u> |          |          | _        | _        | _  |                |          | _              | - 1      |                |           | Г             |                |          |      | De4  | _  |          |          |              | $\neg$       | ſ         | Cla        | im l     |              |    |              |          | Date |                 |    |         |     | ٦        |          |
|-----|----------|----------|----------|-----|--|----------|----------|----------|----------|----|----------------|----------|----------------|----------|----------------|-----------|---------------|----------------|----------|------|--|--|----------|----------|--------------|--------------|-----------|------------|----------|--------------|----|--------------|----------|------|-----------------|----|---------|-----|----------|----------|
| C   | lak      |          |          |     | _  |          | Dα       | te       |          |    | _              | _        | ᅴ              |          | Cla            | <u>lm</u> | $\vdash$      |                |          | ٦    | Date   | ,<br>T   | _        | _        |              | $\dashv$     |           | -:1        | _        | $\top$       | Т  | П            | नं       | T    | 1               | Ť  | П       | _   | $\dashv$ |          |
| [   | rina     | Original | 4 23     | 614 | <br>   |          |          |          |          |    |                |          |                |          | Final          | Original  |               |                |          |      | Ì  |  | ļ        |          |              |              |           | Final      | Original |              |    |              |          |      |                 | .  |         |     |          |          |
| L   |          |          | ø.       | Ø   | 4_   |          | L.       | L        | 1        | 4  | _              | _        |                |          | ᄪ              |           | -             | <u> </u>       | H        |      | -  | $\dashv$   | $\dashv$ | -1       | -            | $\dashv$     | •         | -          | 101      | ╅            | +  | ┪            | 1        | -    | +               | +  | ╛       | -   | -        |          |
| Ľ   | 1        | O        | V        |     | L  |          | L        | ┖        | 1        | 4  | _              | Щ        | _              |          | Ŀ              | 51        | -             | -              | Н        | -    |  | $\dashv$   |          | -        | $\dashv$     | ᅱ            | :         | -          | 102      | ╁            | +  | -            | +        | +    | -1              | 1  | -       | ᅱ   | ᅱ        | Ĺ        |
| E   |          | 2        | П        |     | L  | L        | <u> </u> | L        | 4        | 4  |                | Н        | _              |          | ┡              | 52<br>53  |               | <u> </u>       | -        | Н    | -1   | -  |          | $\dashv$ | $\dashv$     | $\dashv$     |           |            | 103      | +            | +  | -            | 1        | 7    | +               | ┪  | 딗       | ╮   | $\neg$   | ŀ        |
|     | $\cdot$  | 3        | Ш        |     | L  | L        | L        | L        | 4        | _  |                |          | _              |          | ┡              | 1         |               | -              | -        | Н    | $\dashv$   | _  |          | -1       | -1           | -            |           | H          | 104      | +            | +  | -            | +        | ╮┤   | -               | 1  |         |     |          | ĺ        |
| Ŀ   |          | Ø        | Ц        |     | <u> </u>                                     | ┡        | ┡        | 1        | 4        |    |                | Н        |                | i        | ⊢              | 54<br>55  |               | ٠.             | H        | -    | $\dashv$   |  | _        | ┥        | ╌┤           | ᅱ            |           | H          | 106      | . †          | +  |              | ┪        |      | _               | 7  |         |     | ,        | ١.       |
| L   | 4        | 5        | Ц        | L   | Ļ  | ╄        | ļ_       | ╀        | 4        | 4  | _              | Н        | $\dashv$       |          | ┝              | 56        | _             | -              | -        | H    |  | $\exists$  | $\dashv$ |          |              | -            | • •       |            | 106      | 寸            | 7  |              |          | 1    | 7.1             |    | ,       | , a | ~        | ١.       |
| L   | _        | 6        | Ц        | L   | <u> </u>                                     | ↓_       | L        | ļ.       | 4        | -  |                | -        | Н              |          | H              | 57        |               | <del>  .</del> | ╀        | ┝╌   |  |  | $\dashv$ |          |              |              | ,         | -          | 107      | +            | ╗  | ┪            | i        |      |                 |    | •       |     |          | ŀ        |
| L   | 4        | 7        | Ш        | _   | ŀ  | L        | L        | 1        | 4        | -  | H              | -        |                |          | ⊢              | 54        |               | ١.,            | Н        | ٠,   | Н  |  | .,       |          |              | ٠.           | 4         | ,          | 108      | - 1          | 7  |              |          |      |                 |    | • 3."   |     |          | ŀ        |
| L   | _        | 0        | 1        | Ŀ   | 1  | L        | ١.,      | 1        | 4        | -  |                | L        | ÷              | Ţ.       | <del>  -</del> | 55        | _             | ╁              | -        | 7.   | 1  |  |          |          | Ų,           |              |           |            | 109      |              |    |              |          | 7    | া               |    |         | ,   | 7.5      | 1        |
| Ŀ   |          | 9        | Ш        | Ŀ   | با   | 1:       | L        | 1:       | 4        | -  | Ŀ              | -        | 1.             |          | -              | 60        |               | -              | .e.      | 1,32 |  |  | Ţ        |          | 12           |              |           |            | 110      | ा            |    |              |          | 1.5  | 3               |    |         |     | ⋾        | l.       |
| Ŀ   |          | .10      | Ц        | Ŀ   | Ŀ  | 1:       | ŀ        | +        | 4        | ÷  | -              | _        | -              |          | -              | 6         |               | <del> </del>   | -        | -    | -11  | -  |          | H        |              |              |           | -          | 111      | 7            |    |              |          |      | $\overline{\ }$ |    | 4.5     |     |          | į        |
| 1   |          | 11       | Щ        |     | 1  | 1-       | 1:       |          |          | -  | ÷              | ⊢        | •              |          | 尸              | 62        |               | 1              | -        |      |  | Ť  | ۰        |          |              |              |           | <i>'</i> . | 112      | .::          | .7 |              |          |      | $\tilde{q}_{i}$ | 1  | • ;     | -   |          | ľ        |
| 1   | ं।       | 0        | Ц.       | 4   | 1-   | 1        | ۱.       | 1        | -        | ن: | -              | 1        | -              |          | ⊩              | 6         |               | H              | 1        |      |  | 2  | · ·      | .71      | Н            | H            | ٠.·       | Г          | 113      |              | 7  | 1            | Ť.       |      |                 |    |         | ·   |          | ŀ.       |
| 1   | 긔        | 13       | Щ        | L   | -  | 1:-      | F        | +        | -1       | •  | -              | -        | H              | ١.       | $\vdash$       | 64        | -             | $\vdash$       | 1        | Η.   | H  |  |          | Η        | Ħ            |              |           |            | 114      |              |    |              | ::<br>!: | ŗ    |                 |    | ं       |     |          | ١        |
| ŀ   | _        | 14       | #        | Ļ.  | 1  | ╁        | ŀ        | +        | -4       | _  | -              | Η.       | -              | ,        | $\vdash$       | 60        | _             | +              | ۲        | Η-   | -  | -  |          |          |              |              | * 7       |            | 115      |              |    |              | 1        |      |                 |    | - 1     |     | 杰        | ŀ        |
| +   | =        | 15       | ٧        | 1 . | K  | 1:       | ╀        | 4        | 4        |    | H              | Η.       | -              |          | $\vdash$       | 66        | $\overline{}$ | ├-             | ╁        | †    | -  | <del>                                     </del> | Ė        | ۲        | П            | Г            |           |            | 116      |              | ÷. | ,            | ٠,       |      |                 |    |         |     |          | l        |
| Ļ   | _        | 18       | 1        | *   |  | 4        | 1        | +        | -1       |    | -              | +        | H              |          | H              | 87        |               | +              | t        |      | ŕ  | 1  | •        | -        |              | 17.          | [ ]       | ۲          | 117      |              |    |              | • 32     |      |                 |    | ٠.      |     | Ľ.       | ŀ        |
| ١,  |          | 17       | -        | Y   |  | +        | ╀        | +        | 1        | _  | ┝              | ╀        | -              | { ·      | ŀ              | 64        |               | 1              | ╁╴       | 1    | 7  | Τ.   | 7.       |          |              |              |           | 1          | 118      |              |    | 7            |          |      |                 |    |         | L   | L        | ı        |
| ŀ   |          | 18       | Ŀ        | 2   |  | +-       | ╄        | +        | ᅴ        |    | <del> </del> − | ╁        | ⊢              | 1        | $\vdash$       | 61        |               | 1              | 1.       | ۲.   | 1  | H  |          | 15       | -            |              |           | Ι.         | 119      |              | ٠. |              |          |      | •               |    |         | L   | Ŀ        | 1        |
| 1   | -        | 19       | L        |     |  | ┵        | 1        | +        | 4        | _  | ┢              | ╀        | ╌              |          | $\vdash$       | 7         |               | ۲              | ١-       | +    | <del>                                     </del> | Ι.   | 1        |          |              | 7.           | ٠,        | Г          | 120      |              |    | 1            | , ,      |      | 1               |    | ۲,      | L   | -71      | J.       |
| L   |          | 20       | L        | ľ   |  | ┸        | L        | 1        | _        | _  | 1              | ╄        | Ŀ              |          | ┝              | 17        |               | ╁              | ╀        | -    | ├  | ╁  | -        | -        | -            | H            | ١.        | H          | 121      | Ţ,           | ** |              |          |      |                 |    | <u></u> | Œ   |          | ľ        |
| 1   |          | 21       |          | V   | _  | 1        | ╀        | 4        | Ϥ        | _  | ┞-             | ╀        | Ŀ              | 1        | ⊩              | .   /     |               | ╁              | ╁        | +    | ╀  | ⊬  |          | H        | 1            | ١            |           | H          | 122      |              | -  |              |          |      |                 |    |         | Ι.  |          | Ī        |
| 1   | •        | 22       | Ŀ        | 1   |  | 4        | 4        | 4        | 4        | _  | ╀              | +·       | ŀ              | ┨.       | -              | 17        |               | 1.             | +        | +-   | +  | ۲  | 1        | 1        |              | 1            |           | Г          | 123      | .,           | 7  | 1            | Γ        |      |                 |    |         | L   | L        | 1        |
|     | 3.       | 23       |          | 1   | -1.  | 1        | 4        | 4        | ᅼ        | Ŀ  | 1              | +        | <del> </del> - | 1        | -              | +         |               | ╀              | 1        | +    | ╁  | ╁  | 1        | t        | 1            | 1.           | 1         | 17         | 124      |              |    | 1            |          | 33   |                 | ٧, | L       | Ŀ   |          | 1        |
| ٠   | _        | 24       | _        | (   | _  | 4        | +        | 4        |          | +  | ╁              | 1-       | ╀              | 4        | ⊢              | +         |               | +              | +        | +    | +.   | ╁  | 1        | 1        | ۲            | F            | 1 · "     | 1          | 125      |              |    |              |          | Γ    | ١.,             | L  | L       | Ŀ   | L        | 1        |
|     | _        | 25       |          | 1   |  | 4        | 4        | 4        | ,        | ┝  | ╀              | ŀ        | ╀              | ┨        | -              | + 17      |               | ┿              | ╁        | +    | ╁  | ╁  | 1        | 1:       | 1.           | 4.           | 1         |            | 128      |              | Γ  |              |          |      | L               | Ŀ  | L       | L   | 4        | 4        |
| - 1 | _        | 26       |          | 1   |  | 4        | +        | 4        |          | ١. | +              | ÷        | ₽              | ┨.       | -              | + 17      | _             | +              | ╁        | +    | +-   | +  | 17       | 1        | 1            | 1            | 1         | T          | 127      | 1            |    | 1            | 74       |      | Ŀ               | 45 | 4       | 1   | 12       | 4        |
|     |          | 27       |          | 1   |  | +        | 4        | 4        | -        | -  | +              | +        | +-             | 1.       | ŀ              |           | 8             | +              | +        | +    | +  | 1  | 1        | ١.       | 1.           |              | 1.        | Г          | 12       |              | Γ. | $\mathbf{L}$ | L        | Ŀ    | $\dot{z}$       |    | L       | L   | 1        | 4        |
|     |          | 21       |          | 7   |  | 7        | 4        | 4        |          | ╀╌ | ╁              | +        | ╁              | -        | H              |           | 9             | +              | ╅        | +    | +-   |  | 1        | 1        | 1            | 1.           | 1 ։       | Г          | 12       |              | Ŀ  | Ŀ            | L        | شا   |                 | 1  | 1       | +   | ╄        | ٤        |
|     | 3        | 25       |          | 1.  | ∦  | +        | +        | 4        | _        | ١- | ╂              | +        | ┿              | 4        | ┢              | _         | 10            | +              | +        | +    | 1  | 4-   | 1        | T        | 1            | 1            | 7         | Ε          | 130      | $\Gamma_{-}$ | L  | L            | 1.       | ┸    | 1               | 1  | 1       | +   | 1        | 4        |
|     | L        | 3        | _        |     | $\forall$                                    | +        | 4        | -        | _        | ╀  | +-             | +-       | ╁              | ┪        | ┢              | _         | 81            | +              | 1        | +    | 1  | 1  | Т        | 1        | T            | 7            | ] :       |            | 13       |              | L  | ┸            | 1        | 1    | 1-              | Ľ  | 1       | ╀   | 4        | 4        |
|     | ⊢        | 3        |          | _   |  | +        | -        | -        |          | ╁  | ╫              | ╫        | ╁              | ┨        | H              |           | 32            | +              | 十        | +    | 十  | 1  | Τ        | 7        | Т            | Τ            | ]         |            | 13       | _            | L  | L            | ┶        | Į.   | 1               | ╄  | +       | 4   | ╀        | 4        |
|     | ⊢≟       | 3        |          | +   | 칻  | ┿        | ╁        | $\dashv$ | _        | ╁  | +              | ╫        | ╁              | 1        | H              |           | 33            | ╅              | 十        | 7    | ナ  | $\top$   | 1        | 1        | T            | L            | ] '       |            | 13       |              | Ŀ  | 1            | نا       | 4    | +               | ╀- | 4-      | ╬   | +.       | _        |
| ٠,  | ⊢        | 3        |          | +   | +  | +        | ╅        | -        | -        | ✝  | ╁              | +        | +              | +        | ŀ              |           | 34            | +              | +        | +    | +  | T  |          |          | $\mathbf{J}$ | Ι            | ]         |            | 13       | _            | Ŀ  | 4-           | 1        | ╀    | +               | ╁  | +       | +   | +        | -        |
|     | ۲        | 3        |          | +   | +  | ╌        | +        | -        | $\vdash$ | +  | +              | +        | +              | 1        | H              | _         | 85            | +              | 十        | 7    | _  | T  | Τ        | Ι        | Ι            | ·I           | ]         | L          | 13       |              | ļ. | 1            | +        | +    | ╀               | ╁  | +       | +   | ╁        | -        |
|     | ⊢        | 3        |          | +   | +  | +        | +        |          | -        | ۲  | +              | +        | 十              | ┨.       | t              | 7         | B6            | 7              | 7        | 7    | Т  | Τ  | Ι        | Ι        | ŀ            | L            |           | L          | 13       |              | +  | +            | +        | ╁    | +               | ╁  | +       | +   | 十        | -        |
| •   | ⊢        | - 13     |          | +   | +  | $\dashv$ | +        | -        | ۲        | +  | +              | +        | +              | 1        | t              | 7         | B7            | 7              | 1        | 1    | Ţ  | $\rfloor$  | floor    | $\perp$  |              |              | 1         | L          | 13       |              | 4  | +            | +        | ╀    | +               | +  | +       | +   | +        | نب<br>د  |
|     | H        | 3        |          | +   | -+   | $\dashv$ | +        | _        | ┝        | +  | +              | +        | +              | 1        | ١              | 7         | 88            | T              | T        | T    | 1  | Ι  | $\perp$  | Ι        | I            | Ι.           | 4         | Ĺ          | 13       |              | ╀  | +            | +        | ╁    | ╁               | +  | ╁       | +   | +        | <u>.</u> |
|     | $\vdash$ |          | 9        | +   | +  | +        | +        |          | ۲        | ┿  | +              | +        | +              | 7        | t              |           | 89            | 1              | 丁        |      | 1  |  | floor    | Ι        | $\perp$      |              | 1         | L          | 13       | _            | +  | +            | +        | ╁    | ╁               | +  | +       | +   | Ť        | -        |
|     | 1        |          | 하        | +   | +  | +        | ᅥ        | -        | ╁        | +  | +              | ╅        | +              | ٦.       | ı              | -         | 90            | 7              | 寸        | 7    | Т  | T  | T        | Ι        |              | $\perp$      |           | Ļ          | _14      |              | 1  | 4            | +        | ╀    | 4.              | +  | +       | +   | +        | ÷        |
|     | Н        | -        | -        | +   | +  | -+       | -        | _        | ╁        | +  | +              | +        | +              | $\dashv$ | ŀ              | _         | 91            | 7              | _        | 7    | 丁  | T  | Т        | T        | T            | T            | ]         |            | 14       |              | ┸  | ⅃.           | - -      | 1    | +               | +  | +       | +   | +        | -        |
|     | $\vdash$ |          | 11       | 4   | 4  | -        |          | _        | ╀        | +  | +              | +        | +              | $\dashv$ | H              |           | 92            | +              | _        | 十    | +  | +  | 十        | $\top$   | T            | T            |           |            | 14       |              | 1  | 4            | 4        | 4    | +               | +  | +       | +   | +        | _        |
|     | -        | _1.      | 2        | 4   | 4  | -        | -        |          | ╀        | +  | +              | +        | +              | $\dashv$ | ŀ              | _         | 93            | $\dashv$       | $\dashv$ | +    | 7  | 7  | T        | T        | T            | I            | ]         |            | 14       | _            | 1  | 4            | 4        | 4    | +               | +  | +       | ┽   | +        | _        |
|     | L        | -        | 3        | 4   | -  |          | 4        |          | ╀        | +  | +              | $\dashv$ | -∤·            | $\dashv$ | ŀ              | ┥         | 94            | +              | ┪        | _    | 7  | 7  | T        | T        | Т            | T            | ٦         |            | <u> </u> |              | 1  | 4            | 4        | 4    | 4               | +  | +       | +   | +        | _        |
|     | $\vdash$ |          | 4        | -   | 4  |          | _        | _        | ╀        | +  | +              | +        | +              | $\dashv$ | ŀ              | -         | 95            | ┪              | -        | -+   | $\dagger$  | 7  | †        | 7        | 7            | T            | $\exists$ |            |          | 5            | 1  | 4            | 4        | 4    | +               | +  | +       | +   | +        | _        |
|     | ļ.       | _        | 15       | 4   | -  | -        | 4        | -        | ╀        | +  | +              | +        | +              | $\dashv$ | ł              | -         | 96            | +              | 7        | +    | 十  | 7  | 1        | ╛        | T            | 1            |           |            |          | 6            | 1  | 4            | 4        | 4    | +               | +  | +       | +   | 7        | -        |
|     | -        |          | 16       | 4   |  |          | _        | ⊢        | ╀        | +  | +              | +        | +              | $\dashv$ | 1              | $\dashv$  | 97            | ┪              | ┪        | _    | ヿ  | 1  | 十        | 7        | T            | T            | ]         |            |          | 过_           | 1  | 4            | 4        | 4    | +               | ╬  | +       | +   | +        | _        |
|     | L        |          | 17       | 4   | 4  | $\dashv$ | _        | $\vdash$ | ╀        | +  | +              | -        | -+             | $\dashv$ |                | -         | 98            | ┪              | -1       | 7    | 7  | 7  | 1        | T        | 1            |              | ]         | [          |          | 18           | 1  | 4            | 4        | +    | +               | +  | 4       | ┪   | 7        | _        |
|     | 1        | _1       | 18       | 4   | 4  | 니        |          | ⊢        | +-       | +  | -}             | +        | +              | $\dashv$ |                |           | 99            | $\dashv$       | ᅥ        | ↰    | ┪  | _  | _        | I        |              | $\Box$       |           | [          |          | 49_          | 4  | 4            | 4        | +    | +               | +  | +       | +   | 7        | 7        |
|     | H        |          | 49<br>50 | -1  | _  | Н        | <u> </u> | ⊢        | ╁        | +  | ┪              | -1       | -+             | $\dashv$ |                | Н         | 100           |                | 7        | 7    | _  | ┪  |          | T        | Ί            | $\mathbf{I}$ |           | - [        | 1        | 50           | ┸  |              | ┸        | ᆣ    | لملت            |    | -+      | ٠,  | _        | _        |

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